

YD-C400 | Automatic

Automatic Biochemistry Analyzer



Branding visualization. Supplied finish is subject to order confirmation.

A 400-test-per-hour automated clinical chemistry system with 96 sample positions, 80 reagent positions and bidirectional LIS/HIS connectivity for routine laboratory workloads.

400 tests/hour

Analytical throughput

96 positions

Sample capacity

80 positions

Reagent capacity

90 positions

Reaction capacity

Flexible sampling

A circular sample tray with cooling accommodates routine and STAT samples, calibrators and quality-control materials.

Mixing and cleaning

Two independent stirring paddles support uniform mixing. Automatic multi-stage washing helps minimize cross-contamination.

Connected reporting

A graphical interface, bidirectional LIS/HIS connectivity and multiple report formats support daily operation with compatible reagents, calibrators and controls.

YD-C400 | Specifications

Test speed	400 tests/hour
Simultaneous test items	>40
Sample positions	96
Reagent / reaction positions	80 / 90
Specimen types	Whole blood, serum, plasma, urine, CSF, pleural and ascitic fluids; assay-specific validation required
Sample volume	1.5-50 µL; 0.2 µL steps
Reagent volume	10-350 µL; 1.0 µL steps
Reaction volume	150-500 µL
Light source	13.8 V, 50 VA halogen lamp
Photometric range	0-3.0 Abs
Wavelengths (9)	340, 405, 450, 510, 546, 578, 620, 660, 690 nm
Temperature control	37 °C ± 0.1 °C
Cleaning	8-stage washing; supplier literature specifies six levels repeated twice
Connectivity	Bidirectional LIS/HIS; multiple report formats
Power	AC 110/220 V ± 10%, 50/60 Hz
Dimensions (L × W × H)	930 × 700 × 1130 mm
Weight	112 kg

YD-C400 | Reference reagent menu

Reference reagent menu from the supplied literature. Confirm analyzer-specific application settings, specimen suitability, compatible reagents and local regulatory availability for each assay. HbA1c is a chemistry assay, not HPLC variant analysis.

Liver function

ALB, TP, ALP, ALT, AST, γ -GT, DB, TB, CHE, AFU, TBA, ADA, 5'-NT, mAST, CG, PA, MAO, GR

Blood lipids

CHOL, TG, HDL-C, LDL-C, NEFA, Lp(a), ApoA1, ApoB, ApoE, HCY, sdLDL-C, Lp-PLA2

Renal function

Urea, UA, Crea, CYS, β 2-MG, α 1-MG, NGAL, NAG, MALB, RBP

Cardiac markers

CK, CK-MB, LDH, cTnI, α -HBDH, LDH1, Myo, H-FABP, IMA, ACE

Inflammation

ASO, RF, CRP, hs-CRP, Anti-CCP, PCT, SAA

Specific proteins

IgA, IgG, IgM, C3, C4, Fg, AAG, HPT, TRF, AAT, IgG4, C1q, ASO, RF, CRP, SAA, hs-CRP, Anti-CCP, PCT, MMP3, KL-6

Glucose metabolism

GLU, FMN, HbA1c, GA, ADPN, β -HB

Minerals and related assays

Ca, P, CO₂, Cl, Mg, Fe, Cu, Zn

Pancreatic and other markers

α -AMY, LPS, PG I, PG II, SA, SOD

Calibration and controls

CMCAL, CMCON1, CMCON2 (supplier reference codes)

For professional use. Availability, application settings and regulatory status must be confirmed for the target market. Request compatible reagents and current documentation from our team.